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(54) Title: CELL-SEEDED TISSUE-ENGINEERED POLYMERS FOR TREATMENT OF INTRACRANIAL ANEURYSMS

(57) Abstract: Methods and materials for treating intracranial aneurysms with a tissue-engineered biopolymer are disclosed. A novel technique has been developed which utilizes a tissue-engineering biopolymer (TEBP) with living endothelial cells such that the endothelial cells will produce a neoendothelium across the aneurysm ostium. Alternatively, biocompatible materials can be coated onto aneurysm maintenance devices, and the cells can be seeded onto the biocompatible material.